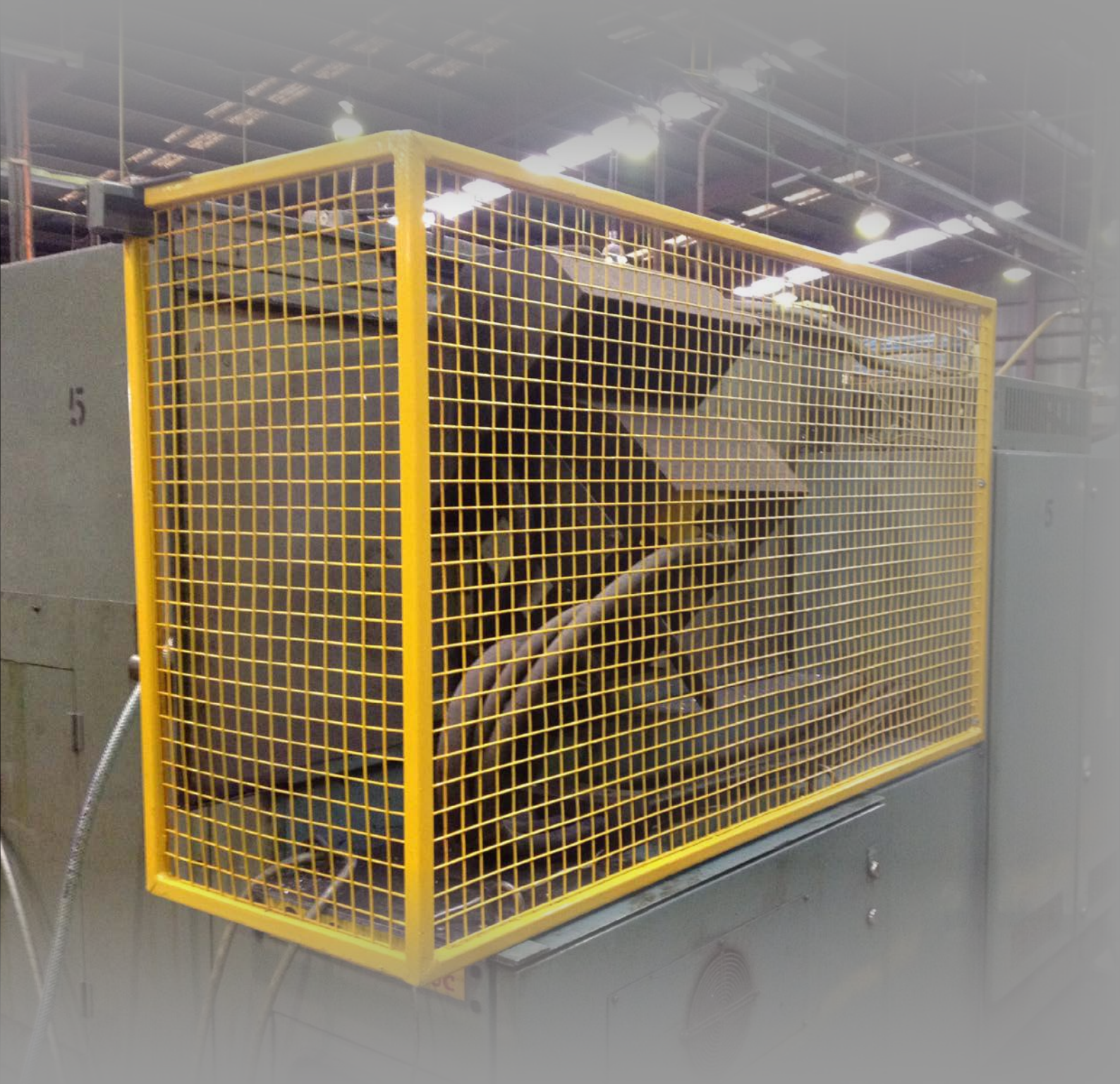




Anping Enzar Metal Products Co., Ltd.



Machine Guarding

What is machine guarding?

Machine guarding, a necessary safety feature on or around manufacturing or engineering equipment as covering, shields or partition barriers. It can protect workers or machine operators from hazardous parts and areas. Besides, it can reduce accident injuries caused by chips or sparks from exiting the machine.



Personnel & Equipment Guarder – Machine Guarding System

What is machine guarding?

- ※ **Comply with local law and council requirement.** The department of labour in more and more countries has issued relevant law to reduce the unacceptably high level of fatal and serious harm injuries associated with unsafe use of machinery.
- ※ **Standardized production process.** machine parts, function and process may call injury during production. Machine guarding standardizes production process and reduces the likelihood that an accident will occur because of mechanical failure, human error, electrical failure or poor design. Moreover, less accident occur, higher production efficiency.
- ※ **Personnel safety protection.** Workers or operators are dangerous when operating the working machine. Amputations, lacerations, crushing injuries and abrasions can be severe or even fatal if there is without machine guards. Machine guarding can not only protect people far from dangerous areas but also avoid potential injuries caused by chips or sparks.



Potential Injuries & Accidents Without Machine Guards



Standardized Production & Safe Working With Machine Guards

What types of machine guarding?

Point guarding – On the Machine

Point machine guards are physical barriers, which are installed onto moving parts on a machine that present a hazard to the machine operator or others who may come in contact with the hazard. Machine guards can prevent the operator from having any part of his/her body in the danger zone during operating cycle.

Point guarding can be:

Fixed guards (permanent)

As its name implies, a fixed guard is a permanent part of the machine. It may be welded on the machine permanently.

- Welded or bolted onto part of machine.
- Available in welded wire mesh panels, expanded metal sheets, perforated metal sheets, crimped wire mesh panels.
- Strong and solid enough to withstand whatever impact it may receive and to endure prolonged use.
- This type guards are usually preferable to all other types because of its relatively simple structures.



**Welded Mesh
Machine Guards**



**Expanded Metal
Machine Guards**



**Perforated Metal
Machine Guards**

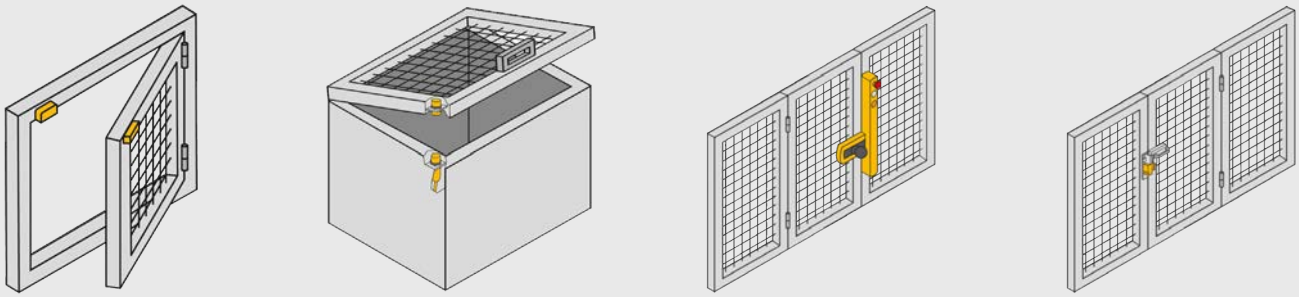


**Crimped Mesh
Machine Guards**

Interlocked guards (removable)

When a process requires an operator to open or remove a machine guard frequently, it may need the interlocked guards. The machine guards are fixed onto the machine with a special device, which is not easily get for operators.

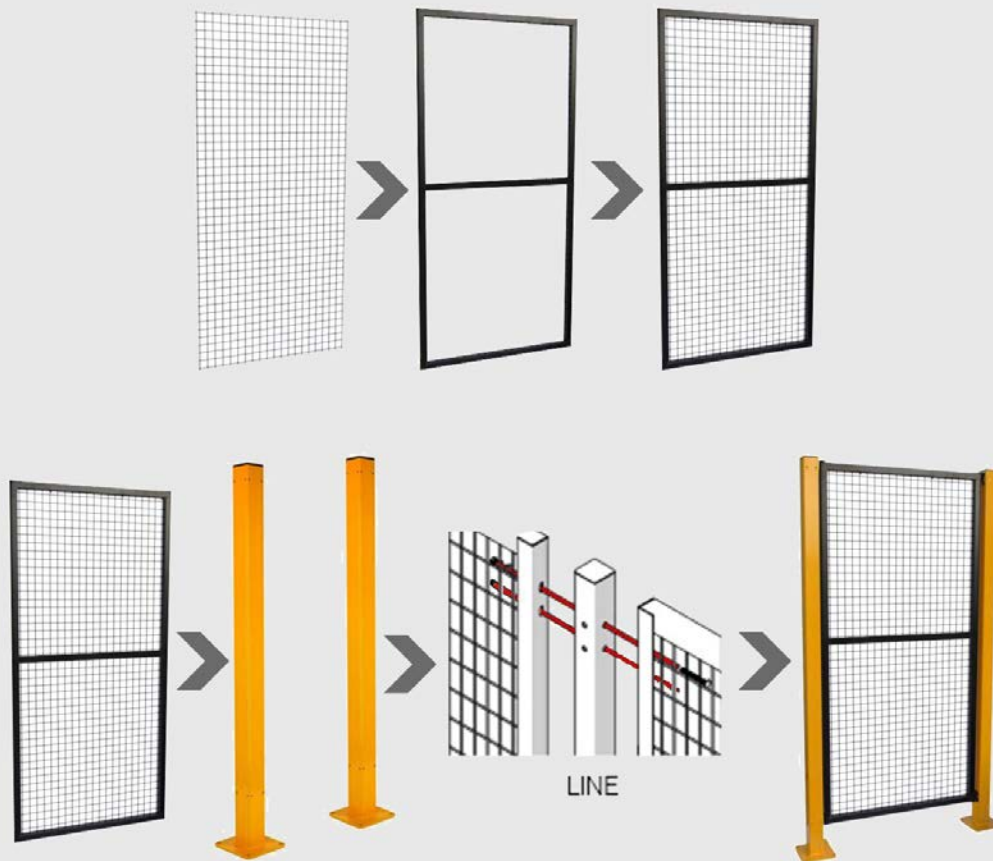
- Machine cannot be operated until guard is closed.
- During operation, guards cannot be opened.
- Opening a guard will stop dangerous motions immediately.
- All removable guards are interlocked to prevent occupational hazards.



Perimeter Guarding – Surround the Machine

Perimeter guarding, strong, economical and effective perimeter barrier, is widely used in workshop and other machine operating places for simple and effective protection. It can protect personnel or operators from dangers posed by automated equipment.

Perimeter guarding is a modular system of wire mesh panels, posts, doors and ample options. You can purchase all necessary components from here.



Guarding panels is available for:

- **Welded wire mesh.**
10 GA diameter wire in 1-1/4" × 2-1/2" rectangular mesh opening or 2" × 2" square mesh opening.
- **Woven wire mesh.**
10 GA wire in 2" × 1" rectangular mesh opening on 1-1/4" × 1-1/4" × 1/8" angle frame.
- **Expanded metal mesh.**



**Welded wire mesh
perimeter guarding**



**Expanded metal
perimeter guarding**

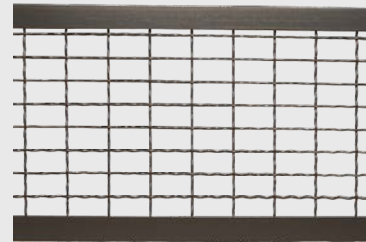


**Woven wire mesh
perimeter guarding**

Material specifications

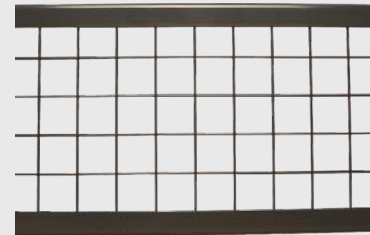
Woven wire panels

- Width: 1' to 10' in one-foot increments.
- Height: standard is 5'.
- Wire diameter: 10 GA.
- Mesh opening: 2" × 1" rectangular opening.
- Frame: 1-1/4" × 1-1/4" × 1/8" angle.
- Customized sizes are available.



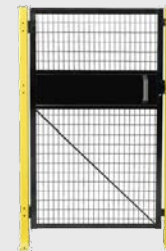
Welded panels

- Width: maximum 10'.
- Height: standard is 5'.
- Wire diameter: 10 GA.
- Mesh opening: 1-1/4" × 2-1/2" rectangular opening or 2" × 2" square opening.
- Frame: 1-1/4" × 1-1/4" × 13 GA roll formed angle.
- Customized sizes are available.



Single hinged doors

- 3' or 4' wide by 5' height.
- Padlock lugs or other locks are available.
- Two 4" × 4" × 10 GA tight pin hinges.
- Works for left or right hand, inside or outside swing.



Double-hinged doors

- 6' or 8' wide by 5' height.
- Padlock lugs and other locks are available.
- Custom doors are available.

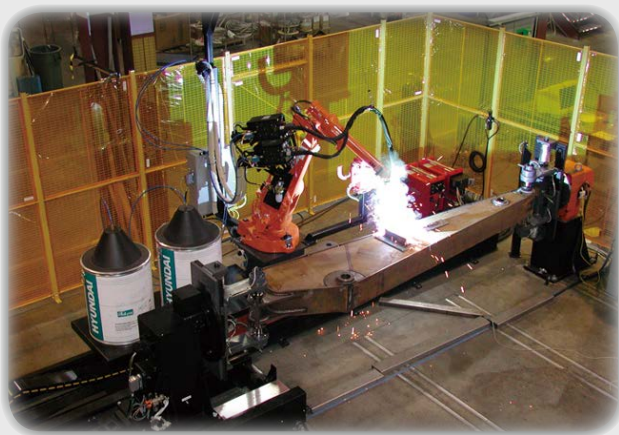
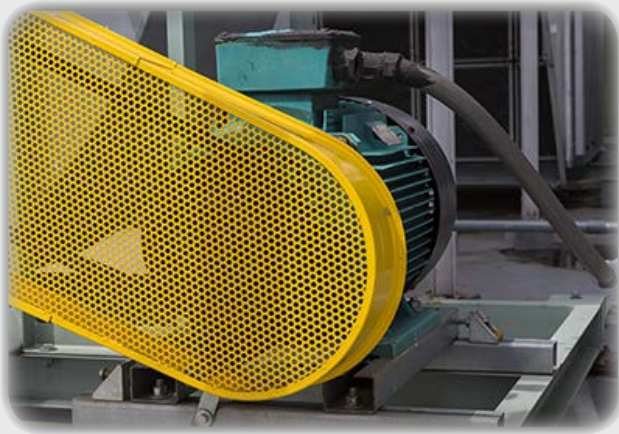


Sliding doors

- 3', 4', 5', 6', 8' or 10' width.
- Full height guarding is 8'.
- Padlock lugs and other locks for option.



Gallery





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